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NASA Procedural Requirements

COMPLIANCE IS MANDATORY**NPR 2570.1C**

Effective Date: September 22,

2014

Expiration Date: September

22, 2019

[Printable Format \(PDF\)](#)[Request Notification of Change \(NASA Only\)](#)**Subject: NASA Radio Frequency (RF) Spectrum Management Manual****Responsible Office: Human Exploration and Operations Mission Directorate**[TOC](#) | [Preface](#) | [Chapter1](#) | [Chapter2](#) | [Chapter3](#) | [Chapter4](#) | [Chapter5](#) | [AppendixA](#) | [AppendixB](#) | [AppendixC](#) | [AppendixD](#) | [AppendixE](#) | [AppendixF](#) | [AppendixG](#) | [AppendixH](#) | [AppendixI](#) | [AppendixJ](#) | [AppendixK](#) | [AppendixL](#) | [ALL](#) |

Preface

P.1 Purpose

- a. These NASA Procedural Requirements (NPR) set forth the requirements for establishing and governing the use of radio frequencies by the National Aeronautics and Space Administration (NASA).
- b. NASA Policy Directive (NPD) 1000.3 assigns the authority for the management of radio frequencies for NASA to the Associate Administrator (AA) for the Human Exploration and Operations Mission Directorate (HEOMD) at NASA Headquarters.
- c. Comments, suggestions, or questions concerning this NPR should be addressed to the Director, Spectrum Policy and Planning, Space Communications and Navigation Office, Human Exploration and Operations Mission Directorate, NASA Headquarters, Washington DC 20546.

P.2 Applicability

- a. This NPR applies to NASA Headquarters, NASA Centers, including Component Facilities and Technical and Service Support Centers.
- b. This language applies to Jet Propulsion Laboratory (JPL), a Federally Funded Research and Development Center (FFRDC), other contractors, grant recipients, or parties to agreements only to the extent specified or referenced in the appropriate contracts, grants, or agreements.

P.3 Authority

- a. National Aeronautics and Space Act, as amended, 51 U.S.C. 20113 (a).
- b. NPD 1000.3, The NASA Organization.

P.4 Applicable Documents and Forms

- a. Communications Act of 1934, as amended, 47 U.S.C. § 151 et seq.
- b. Communications Satellite Act of 1962, as amended, 47 U.S.C. § 701 et seq.
- c. National Telecommunications and Information Administration Organization Act of 1992, 47 U.S.C. § 901 et seq.
- d. President's Memorandum: Unleashing the Wireless Broadband Revolution, Daily Comp. Pres. Doc. 2010 DCPD No. 0556, (June 28, 2010) (2010 Executive Memorandum).
- e. President's Memorandum â?" Expanding America's Leadership in Wireless Innovation, Daily Comp. Pres. Doc. 2013 DCPD No. 00421, (June 14, 2013) (2013 Executive Memorandum).

- f. EO 12046, Relating to the Transfer of Telecommunications Functions, 3 C.F.R. 158 (1978 Comp.), reprinted in 47 U.S.C. § 305 note.
- g. Satellite Communications, 47 C.F.R. pt. 25.
- h. Manual of Regulations and Procedures for Federal Radio Frequency Management, (National Telecommunications and Information Administration Manual), 47 C.F.R. pt. 300.
- i. Radio Regulations, International Telecommunication Union (ITU), published in Geneva, Switzerland.
- j. Office of Management and Budget (OMB) Circular No. A-11 (2012), Section 31.12.
- k. NPD 1000.3, The NASA Organization.
- l. NPD 2570.5, NASA Electromagnetic Spectrum Management.
- m. NPR 7123.1, NASA Systems Engineering Processes and Requirements
- n. NPR 1800.1C, NASA Occupational Health Program Procedures.
- o. NASA-ESA Procedures for Coordination of Frequency Use, May 2006.
- p. NASA-JAXA Procedures for Coordination of Frequency Use, May 2006.
- q. SSP 50423, International Space Station Radio Frequency Coordination Manual.
- r. Space Frequency Coordination Group Resolutions and Recommendations
(<https://www.sfcgonline.org/resources/default.aspx>).
- s. IEEE C 95.1-2005, IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
- t. ICNIRP Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz).

P.5 Measurement/Verification

- a. In order to determine if the Centers, Mission Directorates, and Agency programs and projects are following the content and process requirements of this NPR that are applicable to their activities, compliance will be evaluated through the following:
 - (1) All RF-related procurements (radio-based communications systems, wireless systems, which include: LAN, WAP, WiFi, Bluetooth, walkie-talkies, wireless microphones; active or passive remote-sensing systems; all systems employing satellite (space) communication or transmission/receiving systems; and any associated Earth-station sites and facilities) should be made with the approval of the applicable Center/Facility Spectrum Manager (SM) and are in compliance with NASA and Federal regulatory policies.
 - (2) NASA does not cause EM interference at NASA Centers and JPL (an FFRDC) or in the environment surrounding NASA Centers and JPL (an FFRDC).
 - (3) All NASA frequency assignment actions are accurate and completed in time to meet mission requirements.
 - (4) All Government frequency assignment actions are reviewed for their impact on NASA's ability to carry out its missions.
 - (5) Complete required five and ten-year frequency assignment reviews in a timely manner.
 - (6) All NASA system certification requests are accurate and processed through the National Telecommunications and Information Administration (NTIA) Interdepartment Radio Advisory Committee (IRAC) Spectrum Planning Subcommittee in time to meet mission requirements.
 - (7) All non-NASA Government systems certification requests by the IRAC Spectrum Planning Subcommittee are reviewed for their impact on NASA's ability to carry out its missions.
 - (8) All NASA systems international registrations are accurate and processed through the IRAC Space Systems Subcommittee in time to meet mission requirements.
 - (9) All non-NASA international systems considered by the IRAC Space Systems Subcommittee are reviewed for their impact on NASA's ability to carry out its missions.
 - (10) All NASA RF assignments have been reviewed by their respective Center/Facility Spectrum Manager and the Director of Spectrum Policy and Planning (or his designate) to determine if they should be exempt from the Freedom of Information Act (FOIA) due to their sensitivity or mission essential nature and, so marked, if necessary.

(11) All Center/Facility long-term spectrum requirements are reported to the NASA Headquarters Spectrum Management Office.

P.6 Cancellation

NPR 2570.1B, NASA Radio Frequency (RF) Spectrum Management Manual, dated December 5, 2008.â??

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